## SEQUENCE LISTING

```
<110> Sheppard, Paul O.
      Bishop, Paul D.
<120> Seleno-cysteine Containing Protein
  Zsnk13
<130> 00-87
<150> 60/256,676
<151> 2000-12-18
<160> 6
<170> FastSEQ for Windows Version 4.0
<210> 1
<211> 1355
<212> DNA
<213> Agkistrodon piscivorus piscivorus
<400> 1
ggatccaggc tgaattcggc acgaggctgg atggagacgc cgctgctttg gctgccgctg 60
etgetgetgg ggetgetete ggeettggeg eegetgegeg eegtgeaget egaeeggage 120
cgcctgcagt ggctggcccg cgggaaggtg gagagctgtg gaggatgacg cttgaaccgc 180
ctgccagagg taaaggcctt tctcaacgaa gacctgcctt tgtaccacaa catggacttg 240
aagtacctgg ctggagcgga ccctgagctc atcctgctca acattcaatt tgaagaactt 300
cagagaatcc cattgagtga catgagccgg gaagagataa accagctgat gcaagaattg 360
ggattetace ggaaagacae geeggaetee eetgtteeeg atgettttea aatggegeet 420
gctaattcac tgccatcaga tgtggaagca atgaagaaca gacgtgcgaa agagaaaaag 480
ggggcggggg gtccagacct atagaattca acgtgctctg cttgtgaagg gtgcctgtta 540
gaaaqaatqq qaaqtctcaq qqcattqqca atatctaaat aatctqcaac catataqata 600
agateteetg tggtteacae aeggetgaat tgtgetgeeg gagaaattaa catttagaga 660
agattcaaag gctgcaaact tttgcttaag gagaagaact tgttgccctc agaagcaaaa 720
tgtgcaaaac aaagacagcc acatatatgc aaccccgggc cagttacaga cagcccttga 780
cttacgacta caatcgagac tggaaaaaac gttgttaagc atgtgcagtt gtcaagcaag 840
acacccacat ggctgtgatt gtgactttcc ccqcctqctt cqccacttqc tttqtqcttq 900
teggaageeg gttgggaaag gttgeaaatg gegaetgtgt gaettgeaga acaeegaetg 960
tggtgaaggg caagccaaca accaacaatc acaacaqccc ttqtcaaatq qtcqtaaqtq 1020
aagggetgee tgtaactegg acgaaattga etggaagaag ceteaaggga tteegeeett 1080
catcccaaga coggateett geacaaggea ceacacaagg gtecaeteec gtgaccagea 1140
ettteeetee aggtgtgeet eacetgtgea ggacaggatg aageeetetg eagaaagett 1200
ttgctgctga gggtggatag acacgtcctc tcgggctggg agcgcagcct gctggggaqc 1260
aggtegecaa acceeaactg gtttaggata gtaacaataa agttgeette gteaaccaee 1320
aaaaaaaaaa aaaaaaaaaa aaaaa
                                                                  1355
<210> 2
<211> 110
<212> PRT
<213> Agkistrodon piscivorus piscivorus
<220>
<221> VARIANT
<222> (46)...(46)
<223> Xaa is selenocysteine.
<400> 2
Met Glu Thr Pro Leu Leu Trp Leu Pro Leu Leu Leu Gly Leu Leu
                                  10
Ser Ala Leu Ala Pro Leu Arg Ala Val Gln Leu Asp Arg Ser Arg Leu
                               25
```

```
Gln Trp Leu Ala Arg Gly Lys Val Glu Ser Cys Gly Gly Xaa Arg Leu
                           40
Asn Arg Leu Pro Glu Val Lys Ala Phe Leu Asn Glu Asp Leu Pro Leu
    50
                       55
                                           60
Tyr His Asn Met Asp Leu Lys Tyr Leu Ala Gly Ala Asp Pro Glu Leu
                   70
                                       75
Ile Leu Leu Asn Ile Gln Phe Glu Glu Leu Gln Arg Ile Pro Leu Ser
               85
Asp Met Ser Arg Glu Glu Ile Asn Gln Leu Met Gln Glu Leu
            100
                               105
<210> 3
<211> 471
<212> DNA
<213> Artificial Sequence
<220>
<223> This degenerate nucleotide sequence encodes the
      amino acid sequence of SEQ ID NO:2.
<221> variation
<222> (1)...(471)
<223> N is A, G, C, or T.
<400> 3
atggaracne enythythtg gytheenyth ythythythg gnythythws ngenythgen 60
conytnmgng ongtnoaryt ngaymgnwsn mgnytnoart ggytngonmg nggnaargtn 120
garwsntgyg gnggnnnnmg nytnaaymgn ytnccngarg tnaargcntt yytnaaygar 180
gayytnccny tntaycayaa yatggayytn aartayytng cnggngcnga yccngarytn 240
athytnytna ayathcartt ygargarytn carmgnathc cnytnwsnga yatgwsnmgn 300
gargaratha aycarytnat gcargarytn ggnttytaym gnaargayac nccngaywsn 360
congtracing aygenttyca ratggeneen genaaywsny theenwsnga ygtngargen 420
atgaaraaym gnmgngcnaa rgaraaraar ggngcnggng gnccngayyt n
<210> 4
<211> 48
<212> DNA
<213> Artificial Sequence
<220>
<223> Selenocysteine insertion motif.
<221> variation
<222> (5)...(14)
<223> N is A, T, G, or C.
<221> variation
<222> (15)...(16)
<223> N is A, T, G, C, or absent.
<221> variation
<222> (19)...(34)
<223> N is A, T, G, or C.
<221> variation
<222> (35)...(44)
<223> N is A, T, G, C, or absent.
<221> variation
<222> (45)...(45)
<223> N is A, T, G, or C.
```

```
<221> variation
<222> (48)...(48)
<223> N is A, T, G, or C.
                                                                  48
augannnnn nnnnnnaann nnnnnnnnn nnnnnnnnn nnnnngan
<210> 5
<211> 40
<212> DNA
<213> Artificial Sequence
<223> Selenocysteine insertion element.
<400> 5
                                                                  40
atgaagccct ctgcagaaag cttttgctgc tgagggtgga
<210> 6
<211> 44
<212> DNA
<213> Artificial Sequence
<220>
<223> Selenocysteine insertion element.
                                                                   44
atgaagccct ctgcagaaag cttttgctgc tgagggtgga taga
```